

YOR920010335
Amendment dated 05/27/2008

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Reply to office action mailed 02/25/2008

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The following is a complete listing of all claims in the application, with an indication of the status of each:

Listing of claims:

- 1 1. (previously amended) A method for identifying a cost-minimizing bid set
- 2 for reverse combinatorial auctions where all-or-nothing bids are allowed, said
- 3 method comprising:
- 4 receiving a plurality of bids, each bid having a timestamp, a bid price
- 5 and item information identifying at least one bid item;
- 6 introducing a decision variable for each bid;
- 7 introducing a counting variable to indicate whether bids from a
- 8 supplier are chosen in an optimal bid set;
- 9 modeling demand constraints for each item using the decision variable
- 10 for each bid;
- 11 modeling minimum and maximum numbers of suppliers based on the
- 12 counting variables;
- 13 introducing dummy bids, based on said modeled demand constraints,
- 14 to ensure computability of a cost-minimizing bid set meeting said modeled
- 15 demand constraints;
- 16 formulating an objective of choosing bids that arrive early, for a given
- 17 cost, based on an additional timestamped objective with the given cost level
- 18 as a constraint;
- 19 introducing price modifications to at least one of said bid's respective
- 20 item information and adjusting, based on said price modifications, the
- 21 formulated objective of choosing bids that arrive early, and
- 22 generating a winner of the reverse combinatorial auction, by selecting
- 23 the cost-minimizing bid set from among said plurality of bids, the selecting

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24 based on said time stamps, said bid prices, said item information, said
25 formulated objective of choosing bids that arrive early, and said modeled
26 demand constraints.

1 2. (original) The method of claim 1, wherein the auction is a single-round
2 auction.

1 3. (original) The method of claim 1, wherein the auction is a multiple-round
2 auction.

1 4-11. (canceled)